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TO2TTO" TTOh9260

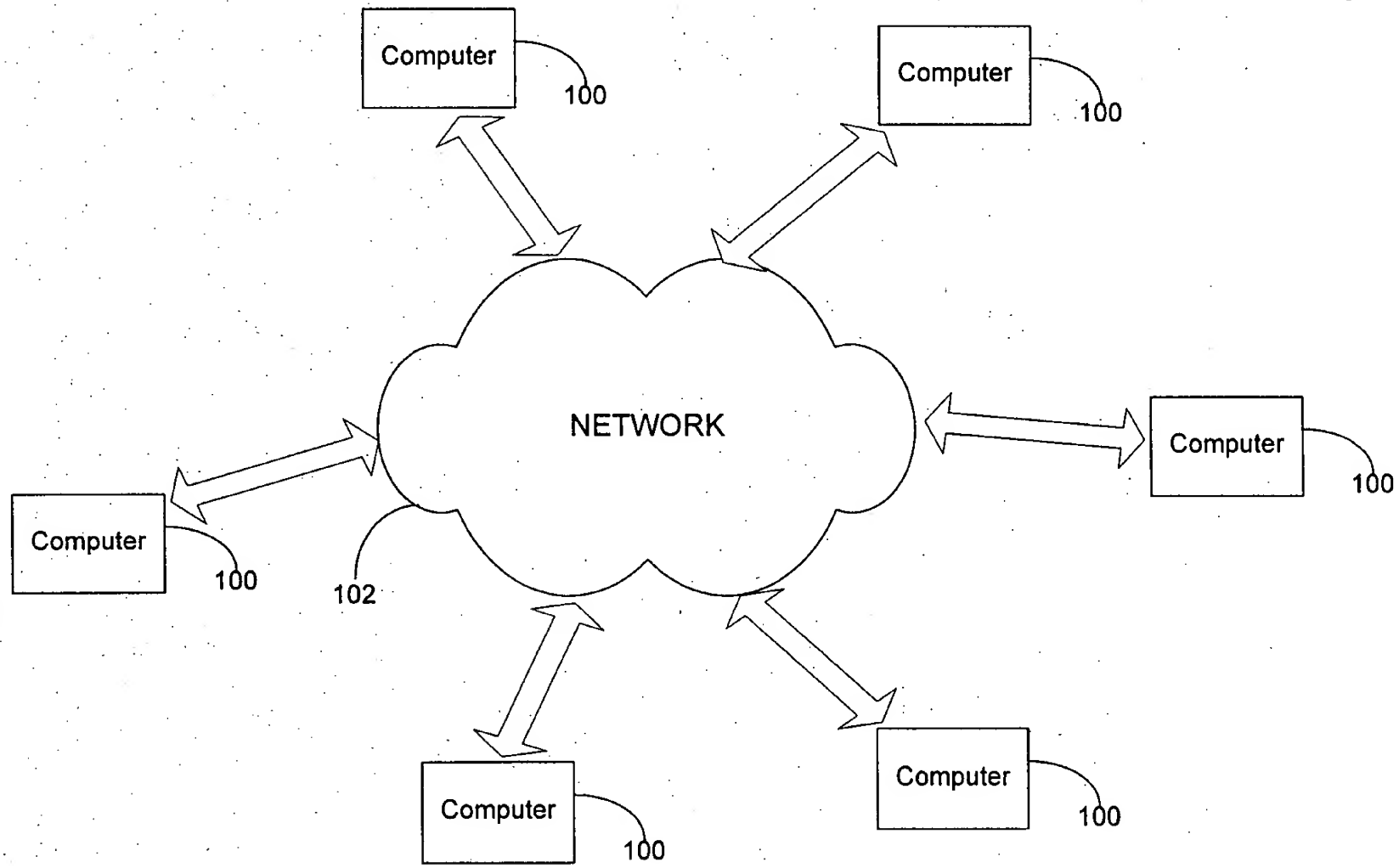


FIG. 1

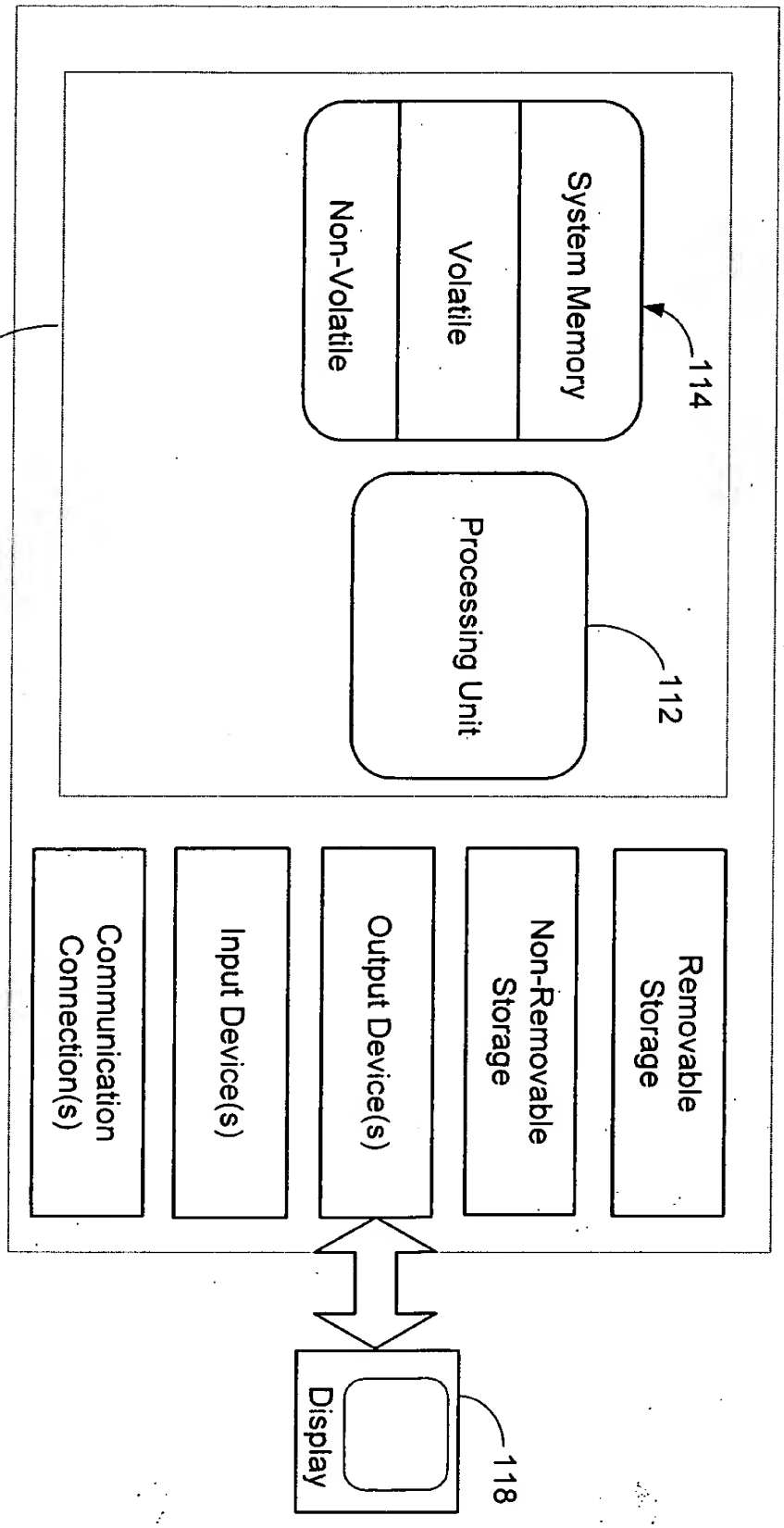

100
106
System Memory
Volatile
Non-Volatile
114
Processing Unit
112
Removable Storage
Non-Removable Storage
Output Device(s)
Input Device(s)
Communication Connection(s)
Display
118

FIG. 2

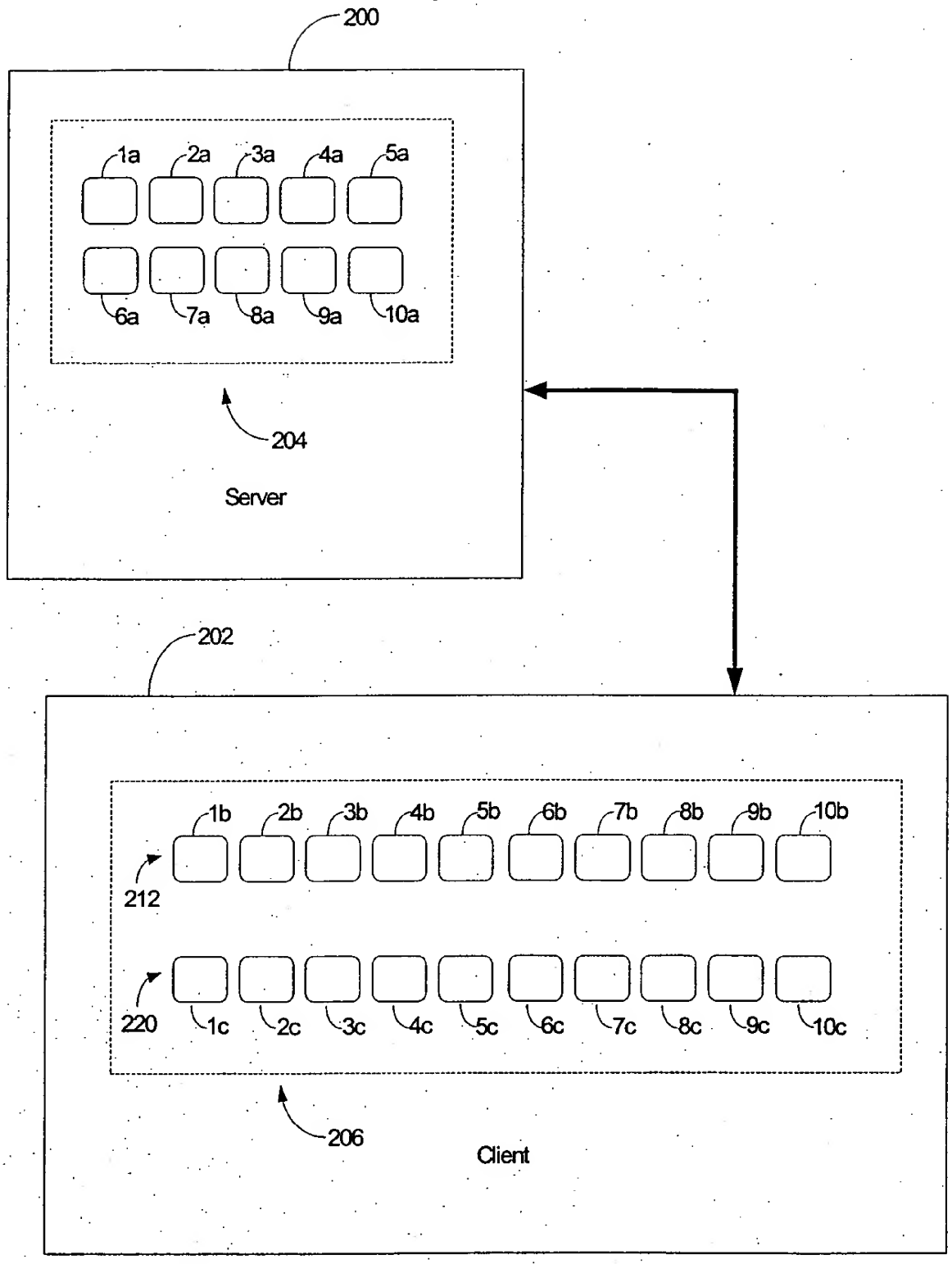

200
1a
2a
3a
4a
5a
6a
7a
8a
9a
10a
204
Server
202
1b
2b
3b
4b
5b
6b
7b
8b
9b
10b
212
220
1c
2c
3c
4c
5c
6c
7c
8c
9c
10c
206
Client

FIG. 3

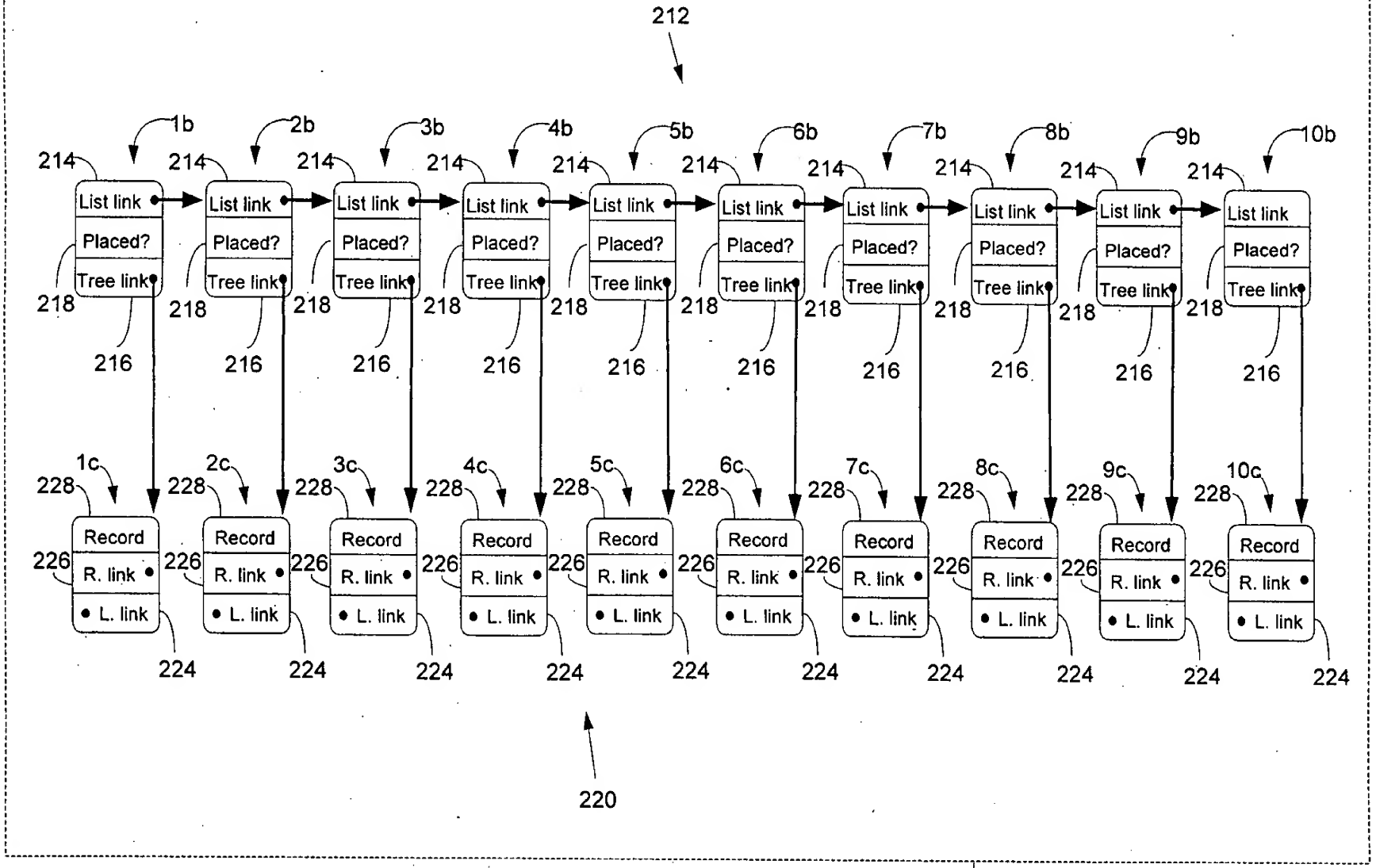

212
1b
2b
3b
4b
5b
6b
7b
8b
9b
10b
214
List link
Placed?
Tree link
218
216
1c
2c
3c
4c
5c
6c
7c
8c
9c
10c
228
Record
R. link
L. link
226
224
220
206

FIG. 4

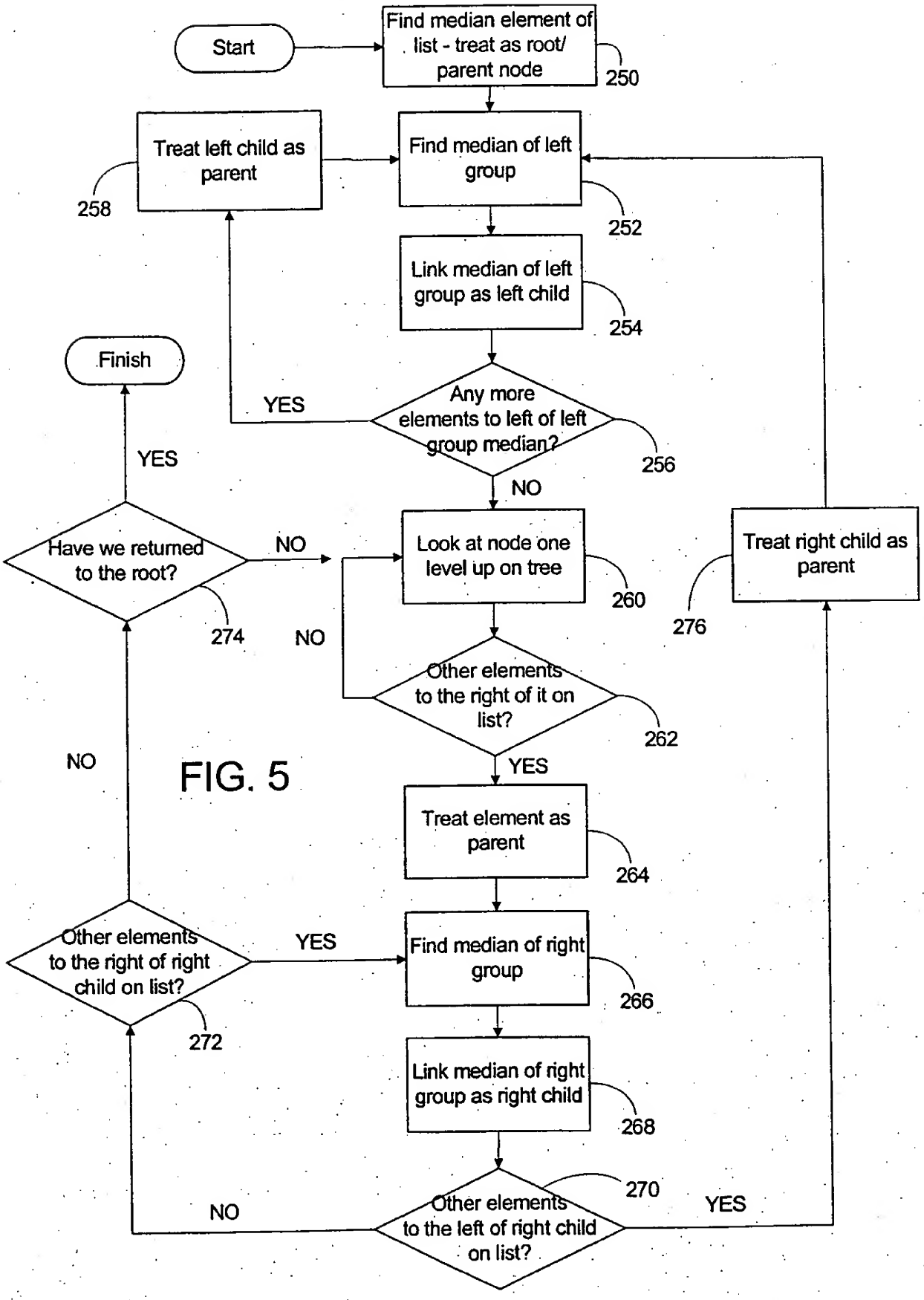

Start
Find median element of list - treat as root/ parent node
250
Find median of left group
252
Link median of left group as left child
254
Any more elements to left of left group median?
256
YES
Treat left child as parent
258
NO
Look at node one level up on tree
260
Other elements to the right of it on list?
262
YES
Treat element as parent
264
Find median of right group
266
Link median of right group as right child
268
Other elements to the left of right child on list?
270
YES
Treat right child as parent
276
NO
Other elements to the right of right child on list?
272
YES
NO
Have we returned to the root?
274
NO
YES
Finish

FIG. 5

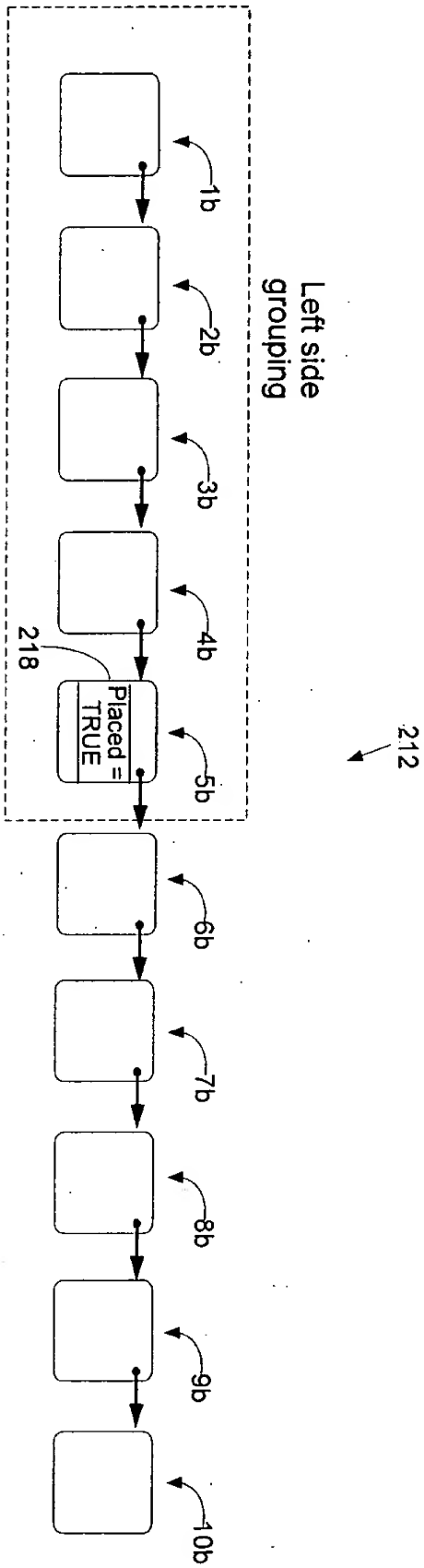


FIG. 6

Petitioner's Exhibit 1004, p. 50

TO2TTO" TTOh9260

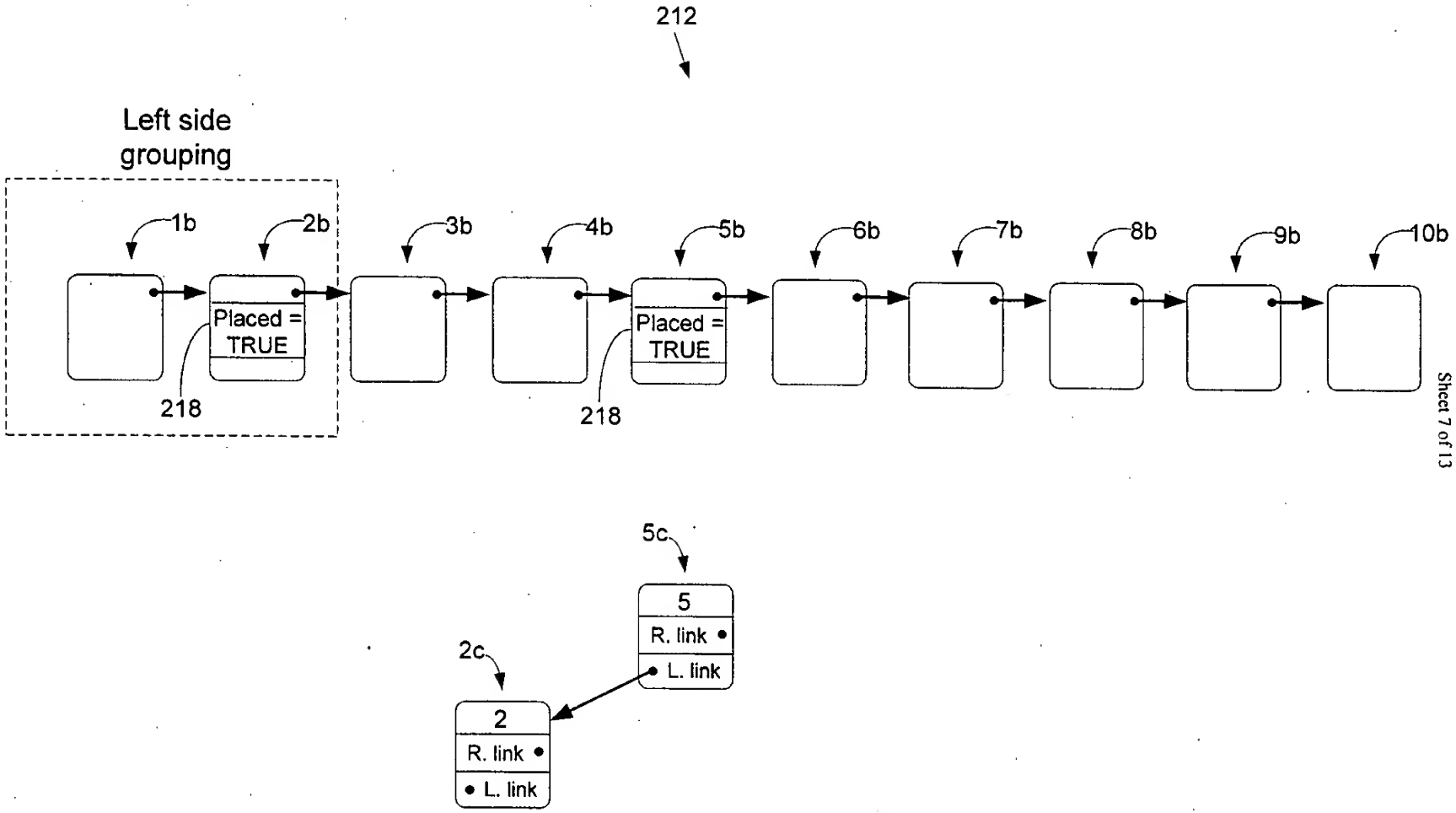
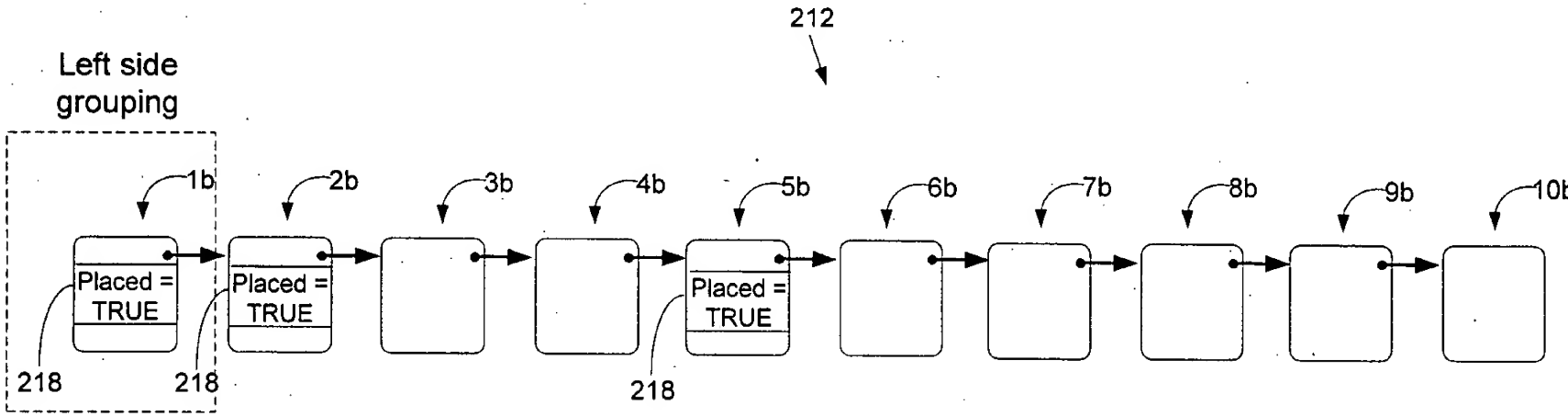


FIG. 7

TOZTEO" TTOh9Z60



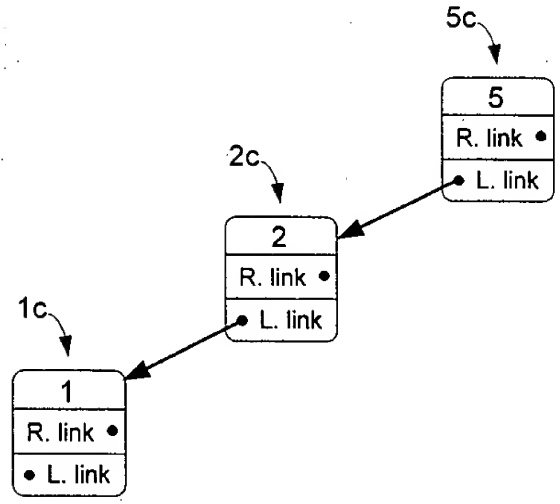
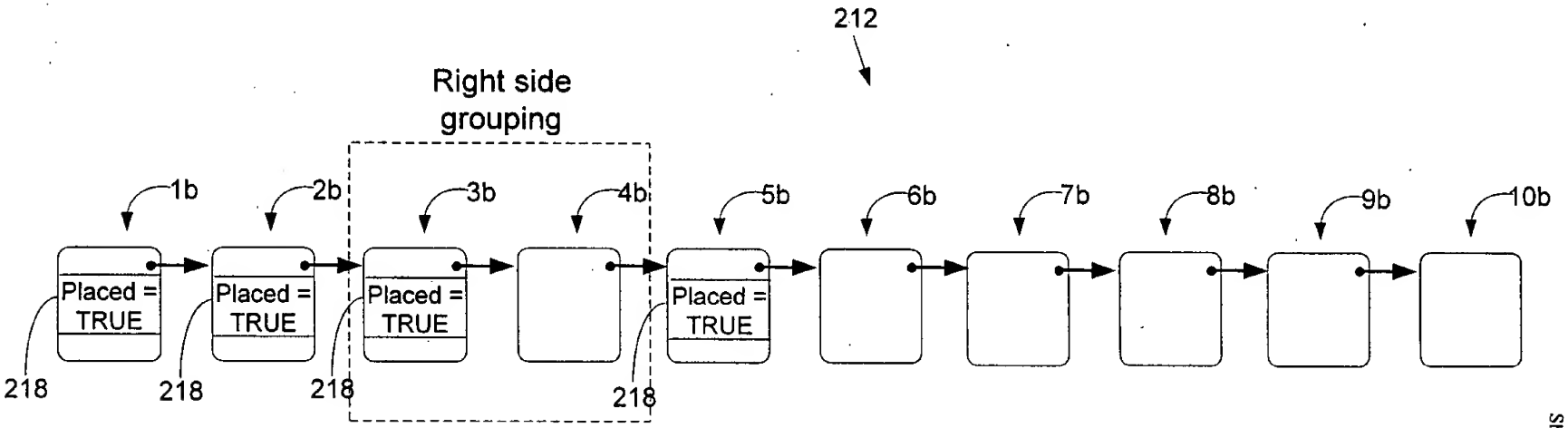


FIG. 8


212
Right side grouping
1b
2b
3b
4b
5b
6b
7b
8b
9b
10b
Placed = TRUE
Placed = TRUE
Placed = TRUE
Placed = TRUE
218
218
218
218

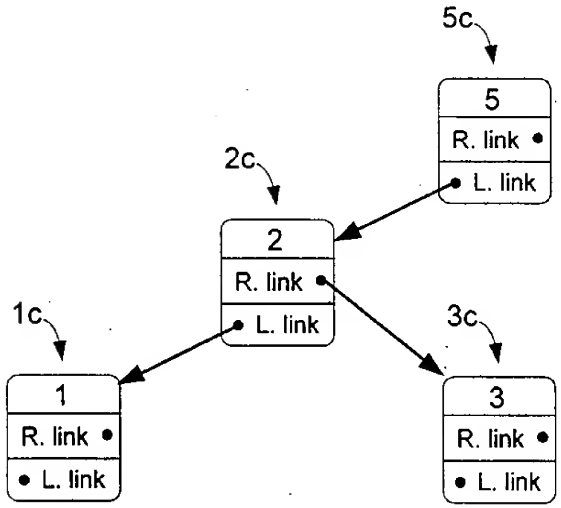
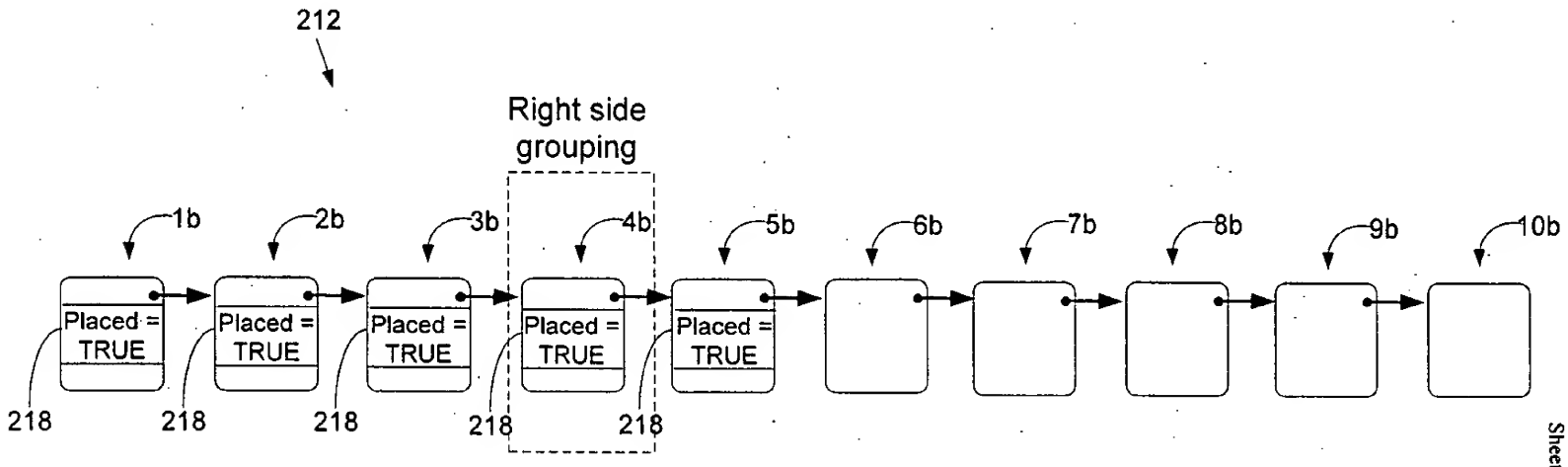

5c
5
R. link
L. link
2c
2
R. link
L. link
1c
1
R. link
L. link
3c
3
R. link
L. link

FIG. 9


212
Right side grouping
1b
2b
3b
4b
5b
6b
7b
8b
9b
10b
Placed = TRUE
218

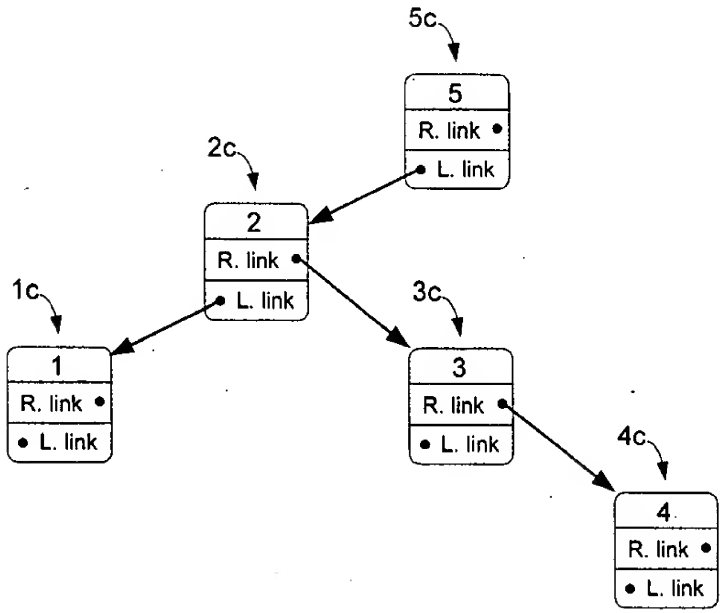

5c
5
R. link
L. link
2c
2
1c
3c
1
3
4c
4

FIG. 10

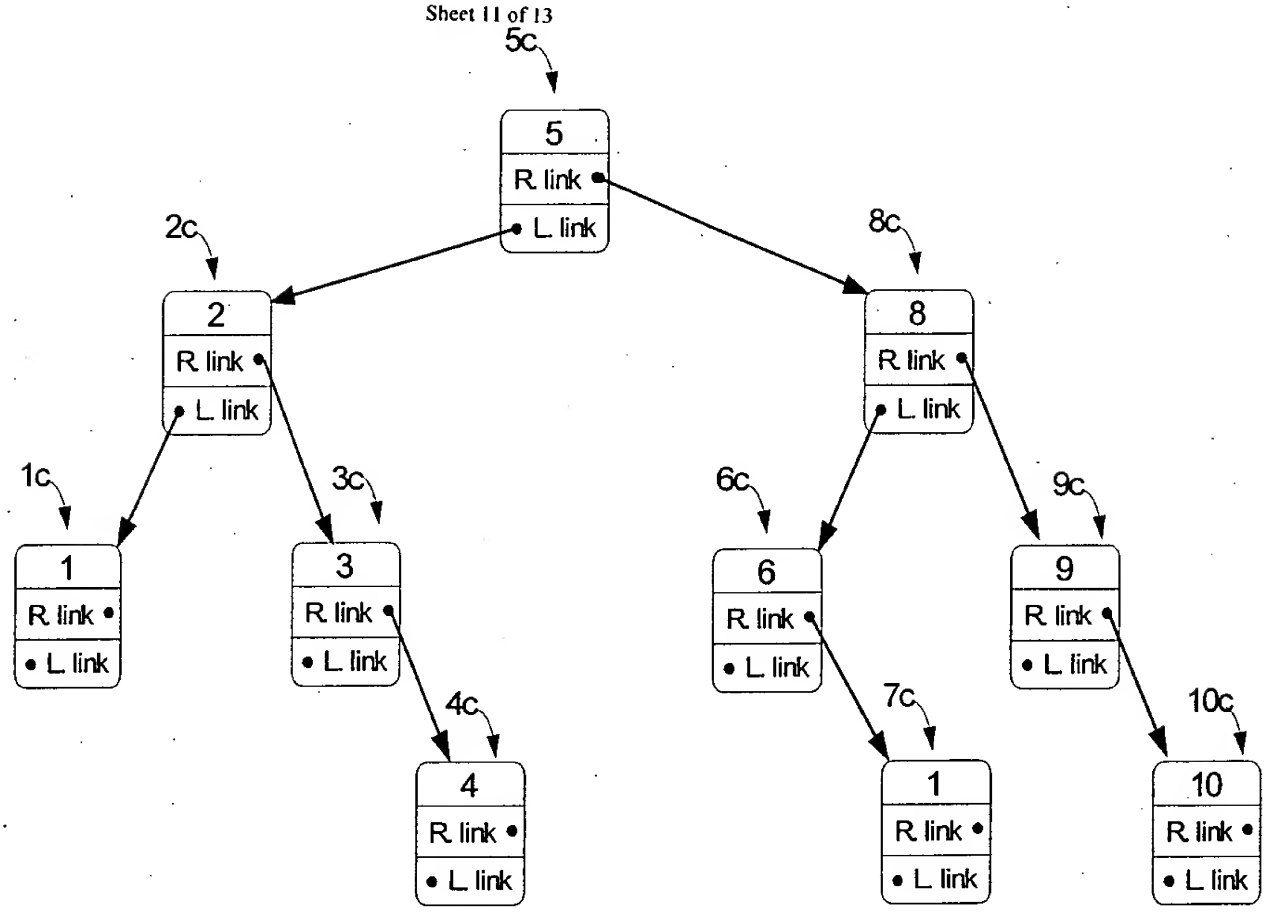


FIG. 11

EXHIBIT 1004, PAGE 0160

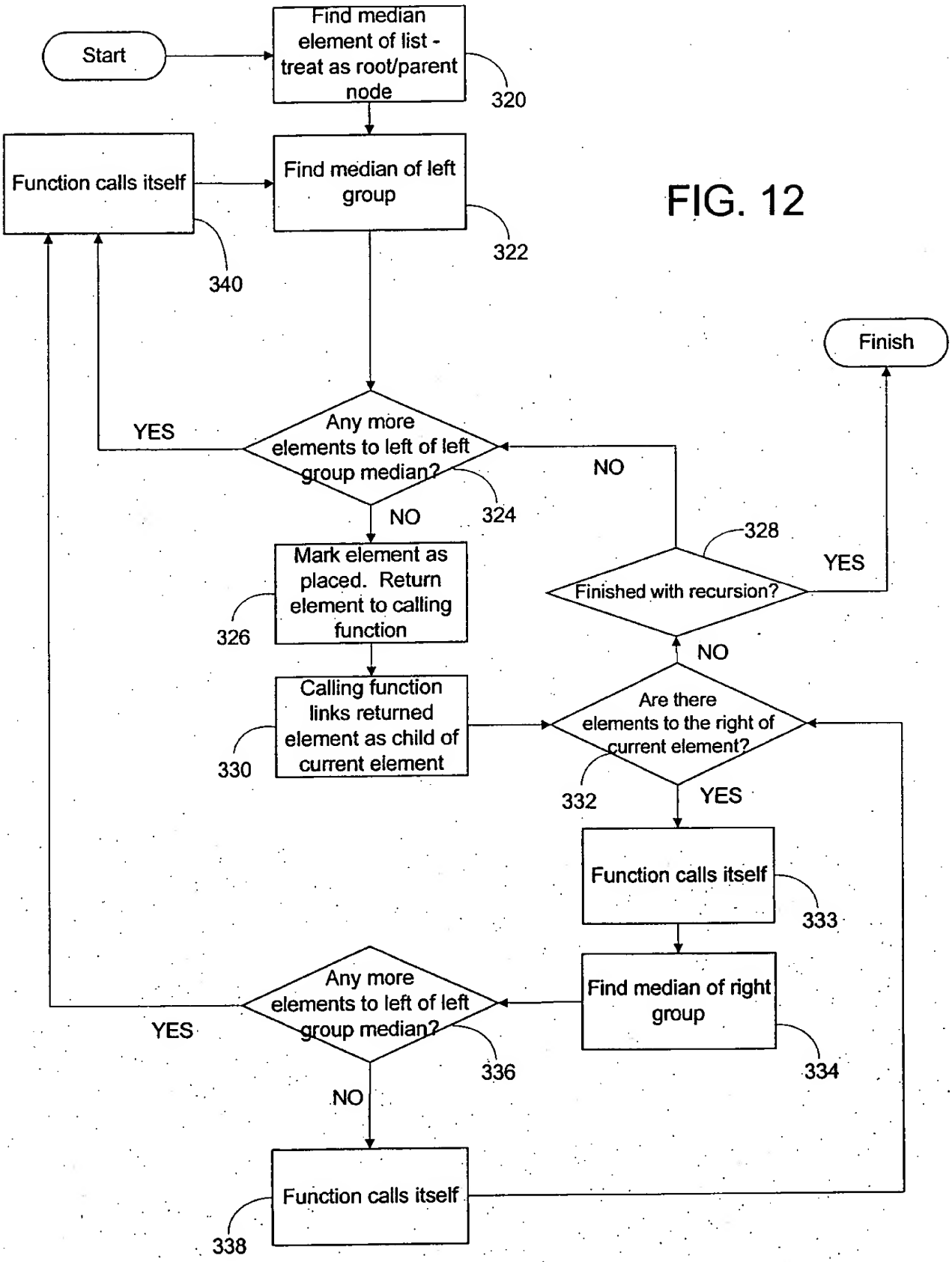

Start
Find median element of list - treat as root/parent node
320
Function calls itself
Find median of left group
322
340
Finish
YES
Any more elements to left of left group median?
NO
324
328
YES
Finished with recursion?
NO
Mark element as placed. Return element to calling function
326
Calling function links returned element as child of current element
330
Are there elements to the right of current element?
332
YES
Function calls itself
333
Find median of right group
334
Any more elements to left of left group median?
YES
336
NO
Function calls itself
338

FIG. 12

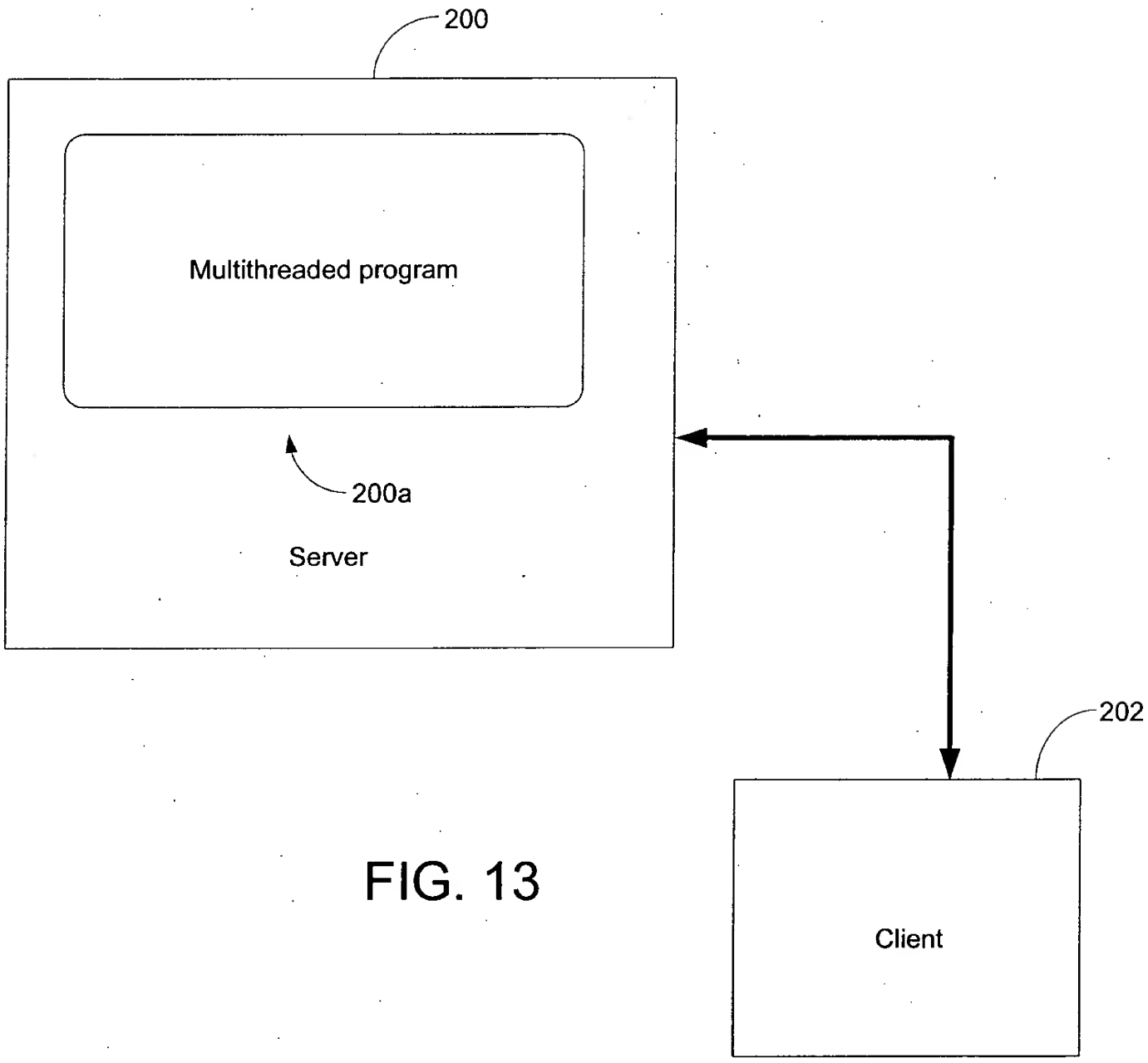


FIG. 13